

2003 Storm Water Bypass Evaluation

Impact on the Great Miami River

| Date¹ | Uranium Concentration in Bypassed Storm Water (ppb) | Uranium Concentration at Parshall Flume² (ppb) | Background Uranium Concentration in GMR (ppb) | Uranium Concentration after Mixing Bypass Storm Water with GMR (ppb)³ | EPA Federal Drinking Water Standard (ppb) | OU5 ROD Final Remediation Level Uranium in GMR (ppb) | Year to Date Mass Discharge (pounds) |
|-------------------------|--|--|--|---|--|---|---|
| 9/4 | 518 | 71.9 | 1 | 1.04 | 30 | 530 | 385.04 |
| 9/3 | 488 | 92.3 | 1 | 1.05 | 30 | 530 | 379.14 |
| 9/2 | 504 | 51.6 | 1 | 1.03 | 30 | 530 | 370.49 |
| 7/12 | 335.1 | 46.4 | 1 | 1.01 | 30 | 530 | 274.86 |
| 7/11 | 344.8 | 87.1 | 1 | 1.03 | 30 | 530 | 272.46 |
| 7/10 | 295.3 | 64.2 | 1 | 1.02 | 30 | 530 | 266.94 |
| 6/18 | 422.6 | 70 | 1 | 1.09 | 30 | 530 | 245.17 |
| 6/17 | 332 | 61.7 | 1 | 1.05 | 30 | 530 | 241.07 |
| 6/16 | 344.4 | 65.6 | 1 | 1.04 | 30 | 530 | 237.52 |
| 6/15 | 299.1 | 54.7 | 1 | 1.03 | 30 | 530 | 233.43 |
| 6/14 | 282.9 | 17.8 | 1 | 1.01 | 30 | 530 | 230.20 |

¹Bold dates are bypass days counted toward the 10-day annual allotment. Remaining dates are partial bypass days.

² The Parshall Flume facility is the last point where Fernald measures the blended flow and uranium concentration of discharge water to the Great Miami River.

³ Calculated estimate based on actual flow rates in the Great Miami River.